

CLAIMS

What is claimed is:

- 1 1. A method comprising:
 - 2 transmitting data to at least one client;
 - 3 receiving, from the at least one client, tracked and reported
 - 4 transmitted data errors regarding the transmitting data, based on a path of the
 - 5 transmitting data and at least one of regional factors, dynamic factors, and
 - 6 retransmission factors;
 - 7 identifying the at least one client reporting the transmitted data
 - 8 errors; and
 - 9 analyzing the transmitted data errors.
- 1 2. The method of claim 1, further comprising:
 - 2 adjusting error correction based on the analyzing the transmitted
 - 3 data errors; and
 - 4 transmitting data, having an adjusted error correction, to the at
 - 5 least one client.
- 1 3. The method of claim 1, wherein the transmitting data comprises
2 broadcasting data, and wherein the receiving tracked and reported transmitted
3 data errors comprises receiving by a broadcast center server.
- 1 4. The method of claim 1, wherein the analyzing the transmitted
2 data errors comprises comparing the transmitted data errors to at least one of a
3 predetermined tolerable transmitted data error level and a predetermined
4 tolerable transmitted data error level for a predetermined time period.
- 1 5. The method of claim 1, further comprising:
 - 2 assigning a predetermined tolerable transmitted data error level;
 - 3 wherein the receiving tracked and reported transmitted data
 - 4 errors comprises receiving only when one of the transmitted data errors
 - 5 exceeds the predetermined tolerable transmitted data error level and the
 - 6 transmitted data errors exceeds the predetermined tolerable transmitted data
 - 7 error level for a predetermined time period.

1 6. The method of claim 1, wherein the transmitting data comprises
2 utilizing at least one of wireless conventional ground terrestrial transmission,
3 digital television (DTV) connection, analog and digital cable television (CATV),
4 satellite connection, direct broadcast satellite system (DBS), wide area network
5 (WAN) connection, and formats chosen by the Advanced Television Systems
6 Committee (ATSC) and National Television Standards Committee (NTSC).

1 7. The method of claim 1, wherein the receiving tracked and
2 reported transmitted data errors comprises utilizing at least one of telephone
3 dial-up connection through a WAN, dial-up directly, data link switching (DLS),
4 cable docsys, and telephony.

1 8. The method of claim 2, wherein the adjusting comprises
2 employing at least one of forward error correction and carouselling, and altering
3 at least one of bandwidth and quality of service.

1 9. The method of claim 2, wherein the adjusting error correction
2 comprises dynamically regulating error correction.

1 10. An apparatus comprising:
2 a transmitter to transmit data to at least one client;
3 a receiver to receive, from the at least one client, tracked and
4 reported transmitted data errors regarding the transmitted data based on a path
5 of the transmitted data and at least one of regional factors, dynamic factors,
6 and retransmission factors; and
7 a device coupled to the receiver to identify the at least one client
8 reporting the transmitted data errors and to analyze the transmitted data errors.

1 11. The apparatus of claim 10, wherein the transmitter transmits
2 broadcasting data, and wherein the device is a broadcast center server.

1 12. The apparatus of claim 10, wherein the device adjusts error
2 correction based on the analysis of the transmitted data errors, and transmits
3 data having the adjusted error correction, to the at least one client.

1 13. The apparatus of claim 10, wherein the device to analyze the
2 transmitted data errors compares the transmitted data errors to at least one of
3 a predetermined tolerable transmitted data error level and a predetermined
4 tolerable transmitted data error level for a predetermined time period.

1 14. The apparatus of claim 10, wherein the device assigns a
2 predetermined tolerable transmitted data error level and the receiver receives
3 tracked and reported transmitted data errors only when one of the transmitted
4 data errors exceeds the predetermined tolerable transmitted data error level,
5 and exceeds the predetermined tolerable transmitted data error level for a
6 predetermined time period.

1 15. The apparatus of claim 10, wherein the transmitter transmits data
2 utilizing at least one of wireless conventional ground terrestrial transmission,
3 digital television (DTV) connection, analog and digital cable television (CATV),
4 satellite connection, direct broadcast satellite system (DBS), wide area network
5 (WAN) connection, and formats chosen by the Advanced Television Systems
6 Committee (ATSC) and National Television Standards Committee (NTSC), and
7 the receiver receives tracked and reported transmitted data errors utilizing at
8 least one of telephone dial-up connection through a WAN, dial-up directly, data
9 link switching (DLS), cable docsys, and telephony.

1 16. The apparatus of claim 12, wherein the device dynamically
2 employs at least one of forward error correction and carouselling, and alters at
3 least one of bandwidth and quality of service.

1 17. A machine-readable medium having instructions that when
2 executed by a processor cause the processor to perform operations
3 comprising:
4 transmitting data to at least one client;
5 receiving, from the at least one client, tracked and reported
6 transmitted data errors regarding the transmitting data, based on a path of the
7 transmitting data and at least one of regional factors, dynamic factors, and
8 retransmission factors;
9 identifying the at least one client reporting the transmitted data
10 errors; and
11 analyzing the transmitted data errors.

1 18. The machine-readable medium of claim 17, further comprising:
2 adjusting error correction based on the analyzing the transmitted
3 data errors; and
4 transmitting data, having an adjusted error correction, to the at
5 least one client.

1 19. The machine-readable medium of claim 17, wherein the
2 transmitting data comprises broadcasting data, and wherein the receiving
3 tracked and reported transmitted data errors comprises receiving by a
4 broadcast center server.

1 20. The machine-readable medium of claim 17, wherein the analyzing
2 the transmitted data errors comprises comparing the transmitted data errors to
3 at least one of a predetermined tolerable transmitted data error level and a
4 predetermined tolerable transmitted data error level for a predetermined time
5 period.

1 21. The machine-readable medium of claim 17, further comprising:
2 assigning a predetermined tolerable transmitted data error level;
3 wherein the receiving tracked and reported transmitted data
4 errors comprises receiving only when one of the transmitted data errors
5 exceeds the predetermined tolerable transmitted data error level and the

6 transmitted data errors exceeds the predetermined tolerable transmitted data
7 error level for a predetermined time period.

1 22. The machine-readable medium of claim 17, wherein the
2 transmitting data comprises utilizing at least one of wireless conventional
3 ground terrestrial transmission, digital television (DTV) connection, analog and
4 digital cable television (CATV), satellite connection, direct broadcast satellite
5 system (DBS), wide area network (WAN) connection, and formats chosen by
6 the Advanced Television Systems Committee (ATSC) and National Television
7 Standards Committee (NTSC), and wherein the receiving tracked and reported
8 transmitted data errors comprises utilizing at least one of telephone dial-up
9 connection through a WAN, dial-up directly, data link switching (DLS), cable
10 docsys, and telephony.

1 23. The machine-readable medium of claim 18, wherein the adjusting
2 comprises dynamically employing at least one of forward error correction and
3 carouselling, and altering at least one of bandwidth and quality of service.

1 24. A method comprising:
2 receiving data from a transmitter;
3 tracking data errors regarding the receiving data, based on a path
4 of the receiving data and at least one of regional factors, dynamic factors, and
5 retransmission factors; and
6 reporting the data errors to a receiver.

1 25. The method of claim 24, further comprising:
2 receiving data, from the transmitter, having an adjusted error
3 correction.

1 26. The method of claim 24, wherein the receiving data comprises
2 receiving broadcast data, and wherein the reporting data errors comprises
3 reporting to a broadcast center server.

1 27. The method of claim 24, further comprising:
2 receiving an assigned predetermined tolerable received data error
3 level;

4 wherein the tracking comprises identifying data errors that one of
5 exceeds the predetermined tolerable received data error level, and exceeds the
6 predetermined tolerable received data error level for a predetermined time
7 period; and

8 wherein the reporting comprises reporting only when one of the
9 data errors exceeds the predetermined tolerable received data error level and
10 the data errors exceeds the predetermined tolerable received data error level
11 for a predetermined time period.

1 28. The method of claim 24, wherein receiving data comprises
2 utilizing at least one of wireless conventional ground terrestrial transmission,
3 digital television (DTV) connection, analog and digital cable television (CATV),
4 satellite connection, direct broadcast satellite system (DBS), wide area network
5 (WAN) connection, and formats chosen by the Advanced Television Systems
6 Committee (ATSC) and National Television Standards Committee (NTSC), and
7 wherein reporting data errors comprises utilizing at least one of telephone dial-
8 up connection through a WAN, dial-up directly, data link switching (DLS), cable
9 docsy, and telephony.

1 29. An apparatus comprising:
2 a receiver to receive data from a transmitter, and track and report
3 received data errors to the transmitter, based on a path of data transmission
4 and at least one of regional factors, dynamic factors, and retransmission
5 factors.

1 30. The apparatus of claim 29, wherein the receiver receives data
2 having one of error correction and an adjusted error correction based on the
3 reported received data errors.

1 31. The apparatus of claim 29, wherein the receiver receives
2 broadcast data from a broadcast center server.

1 32. The apparatus of claim 29, wherein the receiver receives an
2 assigned predetermined tolerable received data error level.

1 33. The apparatus of claim 29, wherein the receiver identifies

2 received data errors that one of exceeds the predetermined tolerable received
3 data error level, and exceeds the predetermined tolerable received data error
4 level for a predetermined time period.

1 34. The apparatus of claim 33, wherein the receiver reports only
2 when one of the received data errors exceeds the predetermined tolerable
3 received data error level and the received data errors exceeds the
4 predetermined tolerable received data error level for a predetermined time
5 period.

1 35. The apparatus of claim 29, wherein the receiver receives the data
2 utilizing at least one of wireless conventional ground terrestrial transmission,
3 digital television (DTV) connection, analog and digital cable television (CATV),
4 satellite connection, direct broadcast satellite system (DBS), wide area network
5 (WAN) connection, and formats chosen by the Advanced Television Systems
6 Committee (ATSC) and National Television Standards Committee (NTSC), and
7 reports the received data errors utilizing at least one of telephone dial-up
8 connection through a WAN, dial-up directly, data link switching (DLS), cable
9 docsys, and telephony.

1 36. A machine-readable medium having instructions that when
2 executed by a processor cause the processor to perform operations
3 comprising:

4 receiving data from a transmitter;
5 tracking data errors regarding the receiving data, based on a path
6 of the receiving data and at least one of regional factors, dynamic factors, and
7 retransmission factors; and
8 reporting the data errors to a receiver.

1 37. The machine-readable medium of claim 36, further comprising:
2 receiving data, from the transmitter, having an adjusted error
3 correction.

1 38. The machine-readable medium of claim 36, wherein the receiving
2 data comprises receiving broadcast data, and wherein the reporting data errors
3 comprises reporting to a broadcast center server.

1 39. The machine-readable medium of claim 36, further comprising:
2 receiving an assigned predetermined tolerable received data error
3 level;

4 wherein the tracking comprises identifying data errors that one of
5 exceeds the predetermined tolerable received data error level, and exceeds the
6 predetermined tolerable received data error level for a predetermined time
7 period; and

8 wherein the reporting comprises reporting only when one of the
9 data errors exceeds the predetermined tolerable received data error level and
10 the data errors exceeds the predetermined tolerable received data error level
11 for a predetermined time period.

1 40. The machine-readable medium of claim 36, wherein receiving
2 data comprises utilizing at least one of wireless conventional ground terrestrial
3 transmission, digital television (DTV) connection, analog and digital cable
4 television (CATV), satellite connection, direct broadcast satellite system (DBS),
5 wide area network (WAN) connection, and formats chosen by the Advanced
6 Television Systems Committee (ATSC) and National Television Standards
7 Committee (NTSC), and wherein reporting data errors comprises utilizing at
8 least one of telephone dial-up connection through a WAN, dial-up directly, data
9 link switching (DLS), cable docsys, and telephony.